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RAW SEQUENCE LISTING PATENT APPLICATION US/09/016,869A DATE: 06/15/2000 TIME: 06:10:00

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1					SEQUENC	E LISTING			-DED
2 3 4	(1) G	enera	l Infor	mation:			E	111	ERED
5 6 7 8 9	(i)	APPL		Beach, Dav Demetrick, Serrano, Ma Hannon, Gre	Douglas J anuel				
10 11 12	(ii)			VENTION: Co ated There		Regulatory	Proteins,	and	
13	(iii)	NUMB:	ER OF S	EQUENCES: 3	34				
14 15 16 17 18 19 20	(iv) COR	(A) (B) (C) (D) (E)	ADDRES	SEE: Foley : One Post Boston MA Y: USA					
22 23 24 25 26 27	(v)	(A) (B) (C)	MEDIUM COMPUT OPERAT	ADABLE FORM TYPE: Flop ER: IBM PC ING SYSTEM RE: WordPac	ppy disk compatibl : PC-DOS/M				
28 29 30 31 32	(vi)	(A)	APPLIC	LICATION DA ATION NUMBI DATE: 30-6	ER: US 09/	016,869			
34 35 36	(vii)	(A)	APPLIC	CATION DATA ATION NUMBE DATE: 15-0	ER: US 08/	893,274			
38 39 10	(vii)	(A)	APPLIC	CATION DATA ATION NUMBE DATE: 14-8	ER: US 08/	306,511			
12 13 14	(vii)	(A)	APPLIC	CATION DATA ATION NUMBI DATE: 25-N	ER: US 08/	248,812			
16	(vii)	PRIO	R APPLI	CATION DATA	A:				

PAGE: 2

RAW SEQUENCE LISTING PATENT APPLICATION US/09/016,869A

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81																			
82	CGG	AGAG	GGG (GAGA.	ACAG	AC A	ACGG	GCGG	C GG	3GAG	CAGC							55	
83 84												met 1	Asp	PIO	Ala	AIA 5			
85	aaa	NGC.) CC	አጥር	GAG	ССТ	TCC	CCT	GAC	TGG	CTG		ACC.	acc	gcg			103	
86					Glu													103	
87	O.	001	JUL		10		001	*****	1100	15	200	******			20	*****			
88	CGG	GGT	CGG	GTA	GAG	GAG	GTG	CGG	GCG	CTG	CTG	GAG	GCG	GTG	GCG	CTG		151	
89	Arg	Gly	Arg	Val	Glu	Glu	Val	Arg	Ala	Leu	Leu	Glu	Ala	Val	Ala	Leu			
90				25					30					35					
91					AAT													199	
92	Pro	Asn		Pro	Asn	Ser	Tyr		Arg	Arg	Pro	Ile		Val	Met	Met			
93			40					45		-			50		~~~	~~~		245	
94					CGA													247	
95 96	met	55 55	ser	Ата	Arg	val	60 60	GIU	теп	Ted	Ten	65	nis	σтУ	WIG	GIU			
97	ccc		TGC	GCC	GAC	CCC		ACT	CTC	ACC	CGA		GTG	CAC	GAC	GCT		295	
98					Asp														
99	70		-,, 5			75					80	0				85			

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100	ccc	ccc	CAC	aaa	TTC	CTC	CAC	NCC.	CITIC	ото	CTC	CTC	CAC			SET: S356	35.raw 343
100 101		CGG															343
102	ATG	Arg	Gru	Gry	90	пец	лор	TIIL	пец	95	vai	пец	1113	Arg	100	GIY	
102	GCG	CGG	CTG	GAC		CGC	GAT	GCC	TGG		CGT	CTG	CCC	GTG		CTG	391
104		Arg															
105		3		105		_	1		110	•				115	•		
106	GCT	GAG	GAG	CTG	GGC	CAT	CGC	GAT	GTC	GCA	CGG	TAC	CTG	CGC	GCG	GCT	439
107	Ala	Glu	Glu	Leu	Gly	His	Arg	Asp	Val	Ala	Arg	Tyr	Leu	Arg	Ala	Ala	
108			120					125					130				
109		GGG															487
110	Ala	Gly	Gly	Thr	Arg	Gly		Asn	His	Ala	Arg		Asp	Ala	Ala	Glu	
111		135	ma.	a. a		aaa	140	man:				145	D.C				F20
112		CCC						TGA	AAGA	ACC A	AGAGA	AGGC"	rc re	JAGA	AACC'	ľ	538
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116																GCCTT	658
117																ATATT	718
118																GGAGT	778
119																SAGCCT	838
120	CGC	AGCC:	rcc (GAA(GCTG?	rc G	ACTT	CATG	A CA	AGCA:	TTTT	GTG	AACT	AGG (GAAG	CTCAGG	898
121	GGG	GTTA	CTG (GCTT(CTCT	rg A	TCA	CACT	G CTA	AGCA	AATG	GCA	GAAC	CAA A	AGCT	CAAATA	958
122	AAA	ATAA	AAT :	TATT:	TTCA?	TT C	ATTC	ACTC	AA A	AAAA							994
123																	
124	(2)	INF	ORMA'	LION	FOR	SEQ	ID I	10:2	:								
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134																	
135	Met	Asp	Pro	Ala	Ala	Gly	Ser	Ser	Met	Glu	Pro	Ser	Ala	Asp	Trp	Leu	
136	1				5					10					15		
137	Ala	Thr	Ala		Ala	Arg	Gly	Arg		Glu	Glu	Val	Arg		Leu	Leu	
138				20	_	_	_		25					30			
139	Glu	Ala		Ala	Leu	Pro	Asn		Pro	Asn	Ser	Tyr		Arg	Arg	Pro	
140	T7.	Gln	35			34-4	αī	40	710	7	170.1	71.	45	T 011	T 011	T 011	
141	iie	50	vai	Met	Met	Mer	55 55	ser	Ald	ALG	vai	60	GIU	Leu	ьеи	ьеи	
142 143	T.011	His	Gly	Δla	Glu	Dro		Cvs	Δla	Δan	Pro		Thr	T.em	Thr	Ara	
144	65	11110	Oly	niu	OIU	70	11011	cyc		· LOP	75		****	200		80	
145		Val	His	Asp	Ala		Ara	Glu	Glv	Phe		Asp	Thr	Leu	Val		
146	0			2	85		3		2	90					95		
147	Leu	His	Arg	Ala	Gly	Ala	Arg	Leu	Asp	Val	Arg	Asp	Ala	Trp	Gly	Arg	
					-		_		105		-	-		110	-	-	
148				100													
148 149	Leu	Pro	Val		Leu	Ala	G1u		Leu	Gly	His	Arg		Val	Ala	Arg	
148 149 150			115	Asp				120					125				
148 149		Pro Leu 130	115	Asp				120					125				

RAW SEQUENCE LISTING PATENT APPLICATION US/09/016,869A

DATE: 06/15/2000 TIME: 06:10:04

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153 154 155	Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp 145 150 155	
156 157	(2) INFORMATION FOR SEQ ID NO:3:	
158 159 160 161 162	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 837 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
163 164	(ii) MOLECULE TYPE: cDNA	
165 166 167 168	(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 328738	•
169 170	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
171 172 173 174 175 176	GAGGACTCCG CGACGGTCCG CACCCTGCGG CCAGAGCGGC TTTGAGCTCG GCTGCTTCCG GCTAGGCGC TTTTTCCCAG AAGCAATCA GGGGGCCCCG CTGGTTCTTG AGCGCCAGA AAGCCCGGA GCTAACGAC GGCCGCTCGG CACTGACGG GGCCCAAGC CGCAGAAGAA GGACGACGGG AGGGTAATGA AGCTGAGCCC AGGTCTCCTA GGAAGGAAGAA AGTGCGCCGG AGCAGCGTGG GAAAGAAGGG AAGAGTCTCG TTAAGTTTAC GGCCAACGGT GGATTATCCG GGCCGCTGCG CGTCTGGGGG CTGCGGA ATC CGC GAG GAG AAC AAC AGG GCTACG Met Arg Glu Glu Asn Lys Gly Met	60 120 180 240 300 351
178 179 180	CCC AGT GGG GGC GGC AGC GAT GAG GGT CTG GCC ACG CCG GCG CGG GGA Pro Ser Gly Gly Gly Ser App Glu Gly Leu Ala Thr Pro Ala Arg Gly 10 15 20	399
181 182 183 184	10 15 20 CTA GTG GAG AAG GTG CGA CAC TCC TGG GAA GCC GGC GCG GAT CCC AAC Leu Val Glu Lys Val Arg His Ser Trp Glu Ala Gly Ala Asp Pro Asn 25 30 35 40	447
185 186 187	GGA GTC AAC CGT TTC GGG AGG CGC GCG ATC CAG GTC ATG ATG ATG GGC Gly Val Asn Arg Phe Gly Arg Arg Ala Ile Gln Val Met Met Gly 45 50 55	495
188 189 190	AGC GCC GGC GTG GGC GAG CTG CTG CTC CAC GGC GGC GAG CCC AAC Ser Ala Arg Val Ala Glu Leu Leu Leu Leu His Gly Ala Glu Pro Asn 60 65 70	543
191 192 193	TGC GCA GAC CCT GCC ACT CTC ACC GGA CCG GTG CAT GAT GCT GCC CGG Cys Ala Asp Pro Ala Thr Leu Thr Arg Pro Val His Asp Ala Ala Arg	591
194 195 196	GAG GGC TTC CTG GAC ACG CTG GTG GTG CTG CAC CGG GCC GGG GCG CGG Glu Gly Phe Leu Asp Thr Leu Val Val Leu His Arg Ala Gly Ala Arg 90 95 100	639
197 198 199	CTG GAC GTG CGC GAT GCC TGG GGT CGT CTG CCC GTG GAC TTG GCC GAG Leu Asp Val Arg Asp Ala Trp Gly Arg Leu Pro Val Asp Leu Ala Glu 105 110 120	687
200 201 202	GAG CGG GGC CAC CGC GAC GTT GCA GGG TAC CTG CGC ACA GCC ACG GGG Glu Arg Gly His Arg Asp Val Ala Gly Tyr Leu Arg Thr Ala Thr Gly 125 120 130 135	735
203 204 205	GAC TGACGCCAGG TTCCCCAGCC GCCCACAACG ACTTTATTTT CTTACCCAAT	788

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206	TTC	CCAC	CCC .	CACC	CACC'	TA A	TTCG.	ATGA	A GG	CTGC	CAAC	GGG	GAGC	3G			83	37
207																		
208	(2) INFORMATION FOR SEQ ID NO:4:																	
209																		
210	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 amino acids																	
211	(B) TYPE: amino acid																	
212																		
213				(D	10.	POTO	JI: .	line	11									
214				MOT TH	arr n	myrn												
215 216	(ii) MOLECULE TYPE: protein																	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO:4:																	
217 218		(:	X1) :	SEQUI	ENCE	DES	LRIP	TON	: 55	מד ה	NO:	±:						
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221	GIY	пеп	Ald		Pro	Ala	Arg	Gly		Val	GIU	гÀВ	vai		HIS	Ser		
222	m	a1	31.	20	21.	7	D	3	25	17- 1	3	2	Di-	30	3			
223	пр	GIU		GIA	Ald	Asp	PIO	Asn	GIĀ	vai	ASII	Arg		GIA	Arg	Arg		
224 225	21.	T1 -	35	17-3	\/	34-4	\/	40		21-	7	17- 1	45	a1	7			
226	мта	50	GIII	vai	Mer	Mer	55	Gly	Ser	Ara	MIG	60	мта	GIU	Бец	neu		
227	т от		114 -	a1	210	C1		Non.	O	710	Nan		21.	The	1	mb		
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229		Dro	Vol.	Wic	Aan		λla	Arg	alu.	C114		7 011	Nan	Thr	Tou			
230	arg	FIU	val	1112	85	niu	NIG	nrg	Giu	90	FILE	пец	nsp	TIIL	95	vai		
231	Val	Len	Uic	λrα		G112	710	Arg	Lou		V-1	λxα	Zen	212		Clas		
232	val	шец	1112	100	nia	GIY	nia	nr 9	105	nsp	val	My	мор	110	пр	GIY		
233	Δτα	Len	Pro		Acn	Leu	Δla	Glu		Δνα	Gly	ніо	Δra		Va 1	Δla		
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235	Glv	Tvr			Thr	Ala	Thr	Gly	Asn				220					
236		130	200	*****		******	135		ч									
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254	GGA	STACE	AGC A	AGCG	GAG(CA TO	GGT(CGCAC	GT.	rcTT(GTC	ACTO	TAA	GA :	TCAC	GCGCGC	6	0
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257																		

258 GACAGCGAGC TGCGCTCTGG CTTTCGTGAA CATGTTGTTG AGGCTAGAGA GGATCTTGAG

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